

APRIL/MAY 2024

**23PCS23 — ADVANCED JAVA
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is a constructor in Java? When a constructor will invoke?
2. Define a Class and Object.
3. Define stubs and skeletons in RMI.
4. What is Object Serialization in Java?
5. Write a short note on JDBC principles.
6. How do you interact with a database in Java?
7. State the importance of Servlet technology in Java.
8. List down the advantages of JSP.
9. What are JAR files?
10. List out the key differences between Swing and AWT.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Analyze Event handling in Java with an example program.

Or

- (b) Examine the Java Networking features in detail.

12. (a) Describe the RMI Naming class and its methods.

Or

- (b) Explain the process of creating and activating remote objects in a distributed application architecture.

13. (a) Explain the steps involved in database search and interaction using JDBC in Java.

Or

- (b) Analyze the interfaces and classes available in JDBC.

14. (a) Illustrate the servlet life cycle with diagram.

Or

- (b) Describe the concept of cookie with suitable example.

15. (a) Elucidate the main features and advantages of Swing programming in Java.

Or

- (b) Illustrate the significance of Internationalization in Java programming and how it is achieved.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the concept of threading in Java and explain its importance in application development.
17. Develop a simple client / server application using RMI.
18. Discuss in detail about predefined and user-defined JDBC Exceptions with examples.
19. Elaborate the process of dynamic web page creation using JSP with an example.
20. Discuss the Java Swing components and design a login page.